

Title (en)
Vehicle outside mirror device

Title (de)
Fahrzeugaußenspiegelvorrichtung

Title (fr)
Dispositif de rétroviseur extérieur de véhicule

Publication
EP 2368762 B1 20130717 (EN)

Application
EP 11158369 A 20110316

Priority
JP 2010071463 A 20100326

Abstract (en)
[origin: EP2368762A1] In a conventional vehicle outside mirror device, there has been a problem that a frictional wear occurs. According to the present invention, an interposing member 6 is provided between a shaft holder 9 and a gear case 11. An electrically rotation range restricting mechanism is a mechanism in which an electrically driven rotation range of a mirror assembly 4 is restricted, and is comprised of abutment faces 33, 34, 43, 44 which are provided at the interposing member 6 and the shaft holder 9. A buffering mechanism is a mechanism which causes the mirror assembly 4 to rotate for the sake of buffering, and is comprised of engagement portions 38, 45 which are provided at the interposing member 6 and the gear case 11. The electrically driven rotation range restricting mechanism and the buffering mechanism are separated from each other. As a result, the present invention can prevent a frictional wear from occurring between the interposing member 6 and the shaft holder 9 and between the interposing member 6 and the gear case 11.

IPC 8 full level
B60R 1/074 (2006.01)

CPC (source: EP KR US)
B60R 1/072 (2013.01 - KR); **B60R 1/074** (2013.01 - EP KR US); **B60R 2011/004** (2013.01 - KR); **B60Y 2304/05** (2013.01 - KR)

Cited by
EP2543546A1; EP2574504A1; EP2644452A1; US8764205B2; US9045088B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2368762 A1 20110928; EP 2368762 B1 20130717; CN 102198820 A 20110928; CN 102198820 B 20141231; JP 2011201447 A 20111013; JP 5418356 B2 20140219; KR 101761139 B1 20170725; KR 20110108260 A 20111005; US 2011235200 A1 20110929; US 8523371 B2 20130903

DOCDB simple family (application)
EP 11158369 A 20110316; CN 201110077352 A 20110325; JP 2010071463 A 20100326; KR 20110023670 A 20110317; US 201113048246 A 20110315